

Title (en)

Method and system for detecting trouble in two-way single-fiber optical transmission

Title (de)

Verfahren und System zur Detektion einer Störung in einer optischen Zweiwegübertragung mit einer Einzelfaser

Title (fr)

Procédé et système pour détecter une perturbation dans une transmission optique bidirectionnelle dans une fibre isolée

Publication

**EP 0644667 B1 20010718 (EN)**

Application

**EP 94102986 A 19940228**

Priority

JP 25379893 A 19930916

Abstract (en)

[origin: EP0644667A1] A method for detecting trouble occurring in a single-fiber two-way optical transmission system containing first and second optical terminal stations connected to each other through at least one two-way single optical fiber. In the method, (a) first abnormality in a first optical signal received at the first optical terminal station is detected; (b) a notice that the first optical terminal station will stop transmission of second optical signals, is transmitted from the first optical terminal station to the second optical terminal station when the first abnormality is detected; (c) the transmission of the second optical signals is stopped after the transmission of the notice; and (d) second abnormality in a third optical signal received at the first optical terminal station is detected after the stopping of the transmission of the second optical signals. <IMAGE>

IPC 1-7

**H04B 10/08**

IPC 8 full level

**G01M 11/00** (2006.01); **G02B 6/00** (2006.01); **H04B 10/07** (2013.01); **H04B 10/071** (2013.01); **H04B 10/077** (2013.01); **H04B 10/079** (2013.01); **H04B 10/2507** (2013.01)

CPC (source: EP US)

**H04B 10/079** (2013.01 - EP US); **H04B 10/0799** (2013.01 - EP US); **H04B 10/2589** (2020.05 - EP US)

Cited by

CN105784324A; CN105784326A; CN105784325A; EP1209828A3; EP2288176A3; GB2293708A; GB2293708B; US5615033A

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0644667 A1 19950322**; **EP 0644667 B1 20010718**; DE 69427727 D1 20010823; DE 69427727 T2 20020508; JP H0787021 A 19950331; US 5491572 A 19960213

DOCDB simple family (application)

**EP 94102986 A 19940228**; DE 69427727 T 19940228; JP 25379893 A 19930916; US 20294894 A 19940228